LAND APPLICATION OF BIOSOLIDS ELSIE M FARMER

KW37 (FIELDS 1 – 3) KING WILLIAM COUNTY, VIRGINIA MAY 2013



May 14, 2013

Mr. Seth Mullins Dept. of Environmental Quality Piedmont Regional Office 4949-A Cox Road Glen Allen, VA 23060

Dear Mr. Mullins:

Transmitted herein for your consideration is land application site for Elsie M. Farmer (designated as KW 37, (fields 1-3) located in King William County, Virginia. This submission contains strictly site specific information. Please refer to the operations and maintenance manual submitted under separate cover for all non-site specific information.

Do not hesitate to contact me at (804) 443-2170 should you have any questions or require additional information.

Sincerely,

D. Steve McMahon

Sr. Technical Services Director

D Sture McMah

/cmw



FIELD SUMMARY SHEET

Elsie Farmer

KW37

SYNAGRO FIELD #			FSA TRACT #	FSA FIELD #	TOPO QUAD	OWNER
37-01 37-02 37-03	71.0 38.1 10.6	64.9 36.9 10.5	None None None	None None None	Hanover Hanover Hanover	Elsie M Farmer Elsie M Farmer Elsie M Farmer
TOTALS:	119.7	112.3				



VIRGINIA REQUEST AND CONSENT FOR BIOSOLIDS

FARM OPERATOR: Elsie M. Farmer	PHONE: (804) 317 - 8239
ADDRESS: Yo Phillip M. Furner Jr	9215 Derwent Dr Mechanicsv. Tle, UA 23116
	no on the suffeside of PET 30 in trig Villain Co
	<u>, </u>
FSA TRACT #:	
TOTAL ACRES:63	COUNTY: King William
CROPS: Hunned Laylelly Pine	J

- 1. I agree to be responsible for adhering to the following conditions, where applicable:
 - a. The soil pH will be adjusted ≥6.0 when biosolids are applied. (This may be accomplished through the application of lime-treated biosolids).
 - b. Do not graze animals on the land for 30 days after the application of biosolids. In addition, animals intended for dairy production should not be allowed to graze on the land or be fed chopped foliage for 60 days after the application of biosolids. Meat-producing livestock should not be fed chopped foliage for 30 days after the application of biosolids.
 - c. Food crops for direct human consumption with harvested parts below the surface of the land shall not be harvested for 14 months after the application of biosolids.
 - d. Food crops for direct human consumption with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface ≥ 4 months prior to incorporation into the soil or 38 months when the biosolids remain on the land surface < 4 months prior to incorporation.
 - e. Food crops, feed crops and fiber crops shall not be harvested for 30 days after application of biosolids.
 - f. Public access to land with a low potential for public exposure (land the public uses infrequently including but not limited to agricultural land and forests) shall be restricted for 30 days after application of biosolids. Public access to land with a high potential for public exposure (land the public uses frequently including but not limited to a public contact site such as parks, playgrounds and golf courses) shall be restricted for 1 year. No biosolids-amended soil shall be excavated or removed from the site for 30 days following the biosolids application unless adequate provisions are made to prevent public exposure to soils, dusts or aerosols.
 - g. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority.
 - h. Supplemental commercial fertilizer or manure applications should be coordinated with the biosolids applications such that the total crop needs fro nutrients are not exceeded as identified on the nutrient balance sheet or the nutrient management plan approved by the Virginia Department of Conservation and Recreation to be supplied to the farm operator by Synagro at the time of application of biosolids to a specific permitted site.
 - i. Tobacco, because it has been shown to accumulate cadmium, should not be grown for three years following the application of biosolids-borne cadmium equal to or exceeding 0.45 lbs/acre.
- 2. I understand that this transaction is not contemplated by the parties to be a sale of goods, and that Synagro is willing to provide to me without charge the service of land applying biosolids which have been approved by the appropriate regulatory agencies for land application.
- 3. I understand that successful crop production depends on many variables, such as weather, soil conditions and specific farming practices and that while Synagro has experience with land application of biosolids, the responsibility for properly accommodating agricultural practices to biosolids utilization are solely mine. I have also read and understand the "Important Information About Using Biosolids as a Fertilizer" which is on the reverse side and incorporated by reference in this Reguest and Consent.

1-18-11 DATE

Synagro * 10647 Tidewater Trail * Champlain, VA 22438 * 804.443.2170

OPERATOR'S SIGNAT

SYNR&CVA * 04/07 WHITE: Regional Office CANARY: Landowner



VIRGINIA LANDOWNER CONSENT FOR BIOSOLIDS APPLICATION

OWNER NAME: Elsie M. Farmer	PHONE: (864) 317-8239
ADDRESS: 40 Phillip Ferrer Jr 9215 Derwent Dr N	lechenics v. He, VA 23116
OPERATOR NAME:	TOTAL ACRES:3
FSA TRACT #:	COUNTY: King William
The undersigned hereby agrees to the application of biosolids by Synagro at a regulations.	pplication rates in accordance with applicable laws and
This biosolids application agreement is made on betwee (owner of the permit).	Elsie M. Farrier (Landowner) and Synagro
Landowner is the owner of agricultural land shown on the map attached as Extraction (Landowner's land). Synagro agrees to apprequirements following application of biosolids on Landowner's land in amounts which is held by Synagro.	oly and Landowner agrees to comply with certain permit
Landowner acknowledges that the appropriate application of biosolids will be be property. Moreover, Landowner acknowledges having been expressly advised	peneficial in providing fertilizer and soil conditioning to the d that, in order to protect public health:
 I understand that Synagro will coordinate biosolids deliveries with my farm otherwise advised by me. I agree to allow Synagro and federal, state and local regulatory staff access the site, inspecting the site, applying biosolids, obtaining samples from the the above parties for proper identification at any time. I understand that the following conditions apply to my land following biosolis signed an agreement form with Synagro stating that my leasee will be resp where applicable: Do not graze animals on the land for 30 days after the application of be production shall not be allowed to graze on the land for 60 days after b. Food crops (crops consumed by humans including but not limited to fear touch the biosolids/soil mixture and are totally above the land surface application of biosolids. Food crops with harvested parts below the stafter the application of biosolids when the biosolids remain on the land or 38 months when the biosolids remain on the land surface < 4 months fiber crops shall not be harvested for 30 days after application of biosolics. Public access to land with a low potential for public exposure (land the agricultural land and forests) shall be restricted for 30 days. Public accessing the public uses frequently including but not limited to a public content of the public uses frequently including but not limited to a public content of the public uses frequently including but not limited to a public content of the province of t	s to my land for the purposes of permitting site and testing. I reserve the right to ask ids applications and that my leasee has consible for following these conditions biosolids. In addition, animals intended for dairy the application of biosolids. Fruits, vegetables and tobacco) with harvested parts that a shall not be harvested for 14 months after the urface of the land shall not be harvested for 20 months d surface ≥ 4 months prior to incorporation into the soil, this prior to incorporation. Food crops, feed crops and colids. The public uses infrequently including but not limited to coess to land with a high potential for public exposure contact site such as parks, playgrounds and golf courses) defor one year after application of biosolids when the exposure or a lawn, unless otherwise specified by the
4. Supplemental commercial fertilizer or manure applications should be coor such that the total crop needs for nutrients are not exceeded as identified nutrient management plan approved by the Virginia Department of Consei the Landowner by Synagro at the time of application of biosolids to a specific	on the nutrient balance sheet or the rvation and Recreation to be supplied to cific permitted site.
 Tobacco, because it has been shown to accumulate cadmium, should not following the application of biosolids-borne cadmium equal to or exceeding I have also read the "Information About Biosolids" which is on the reverse 	g 0.45 lbs/ac (0.5 kg/ha).
 Consent. The term of this Consent shall continue until written notification is given by due to the significant costs incurred by Synagro to permit the land applicate provider for a period of three years from the date of permit issuance. 	y either party to terminate this agreement. Furthermore, tion site, I agree not to change to another biosolids
8. I certify that I am holder of legal title to the above described property or an for the land application of biosolids and that there are no restrictions to the Country of the American Marketine of the Country of the American Marketine of the Country of the C	e granting of consent under this form.
OVVINER SIMINATURE OF SIMPLING AS A PEDPESENTATIVE. INCIDIE TITLE)	DAIL

Synagro * 10647 Tidewater Trail * Champlain, VA 22438 * 804.443.2170

Tax ID Landowner Identification Sheet

Landowner	Field #	Tax ID	
Estate of Elsie M Farmer	37 - 01	10 - 41	
c/o Phil Farmer			

Field #	Latitude (north)	Longitude (west)	_
37 – 01	37° 48' 22.29	77 ⁰ 17' 39.32"	



Elsie Farmer KW37 Field 1



TAX MAP

Tax ID Landowner Identification Sheet

Landowner	Field #	Tax ID
Estate of Elsie M Farmer c/o Phil Farmer	37 – 01	10 – 41
Estate of Elsie M Farmer c/o Phil Farmer	37 – 02	10 – 41
Estate of Elsie M Farmer c/o Phil Farmer	37 – 03	10 – 41

Field #	Latitude (north)	Longitude (west)
37 - 01 $37 - 02$ $37 - 03$	37° 48' 22.29" 37° 48' 41.43" 37° 48' 28.54"	77° 17' 39.32" 77° 17' 44.88" 77° 17' 47.36"

MAP LEGEND



House/Dwelling with a well



Rock Outcrop



Well



Lake/Pond



Slope which exceeds 15%



Intermittent Stream



Stream/River



Agricultural/Drainage Ditch



Field boundary



Property Line



Environmentally Sensitive Areas

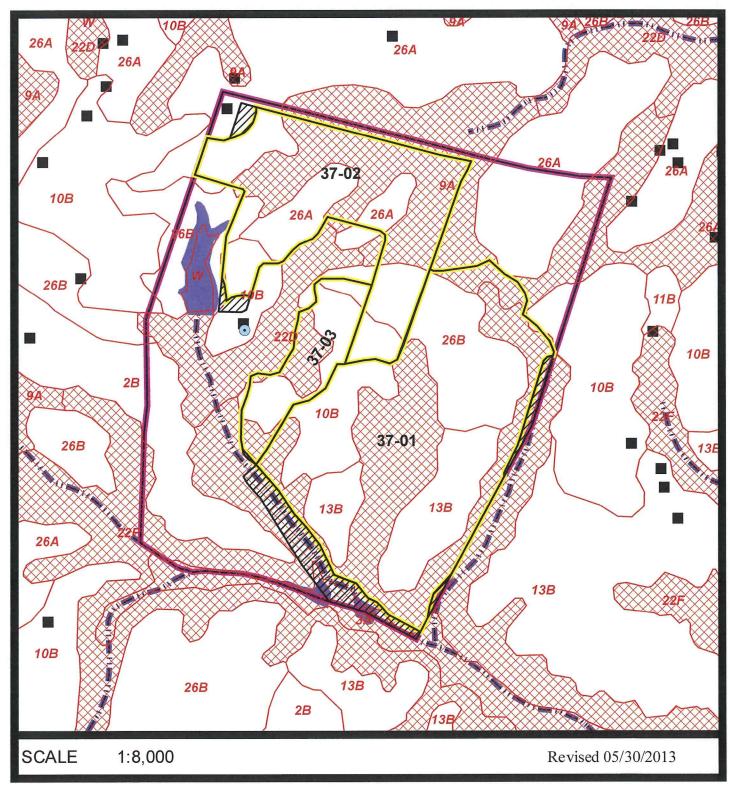
Field	Reason for Sensitive Area
37-01	High Leaching Potential (Map Unit 22F - 43%)
37-02	High Water Table (Map Unit 9A - 45%)
37-03	High Leaching Potential (Map Units 22D, 22F - 38%)

King William County Soils that are Environmentally Sensitive

Soil Map Unit	Series Name	Time of year		Environmental
•		High Water	Flooded	
3A	Bibb/Kinston	Nov – June	Nov – June	Drainage
4A	Bohicket	Nov – June	Nov – June	
5A	Bojac	Jan – Dec		Leaching
6A, 6B	Bojac			Leaching
7A	Catpoint			Leaching
8A	Conetoe			Leaching
9A	Daleville	Nov – May		
14A	Kenansville			Leaching
15A	Lanexa	Jan – Dec	Jan - Dec	Drainage
16A	Mattan	Jan - Dec	Jan - Dec	Drainage
18A	Myatt	Nov – April		
20A	Osier	Nov - March		Drainage
22D, 22F	Remlik/Nevarc			Leaching
23A	Riverview		Dec - March	
24A	Roanoke	Nov – May		
29B, 29D, 29F	Tarboro			Leaching
30A	Tomotley	Nov – April	X	
32A	Wehadkee	Nov – May	Nov - May	



Elsie Farmer KW37 Fields 1 – 3



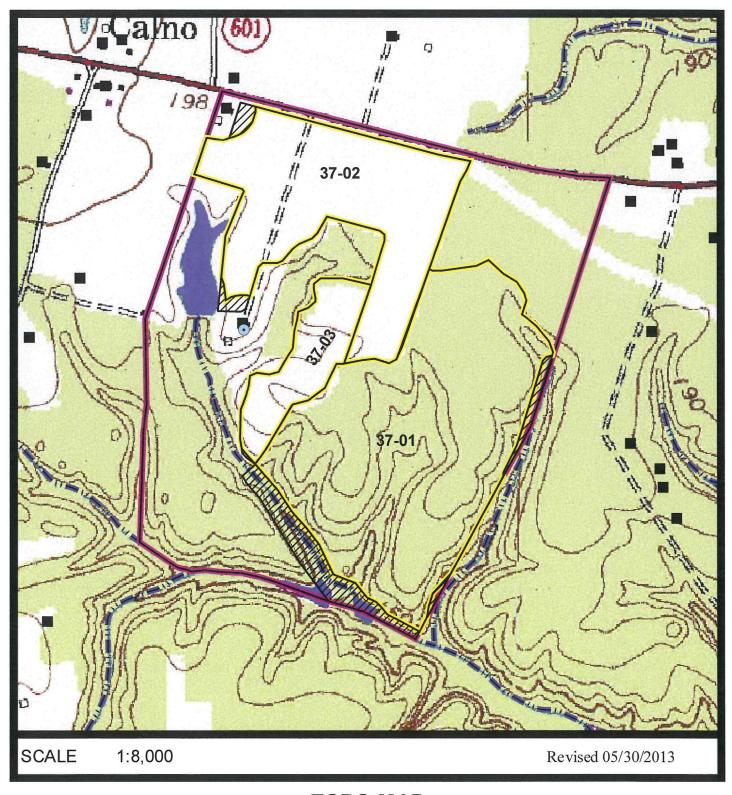
SOIL MAP

Environmentally Sensitive Areas

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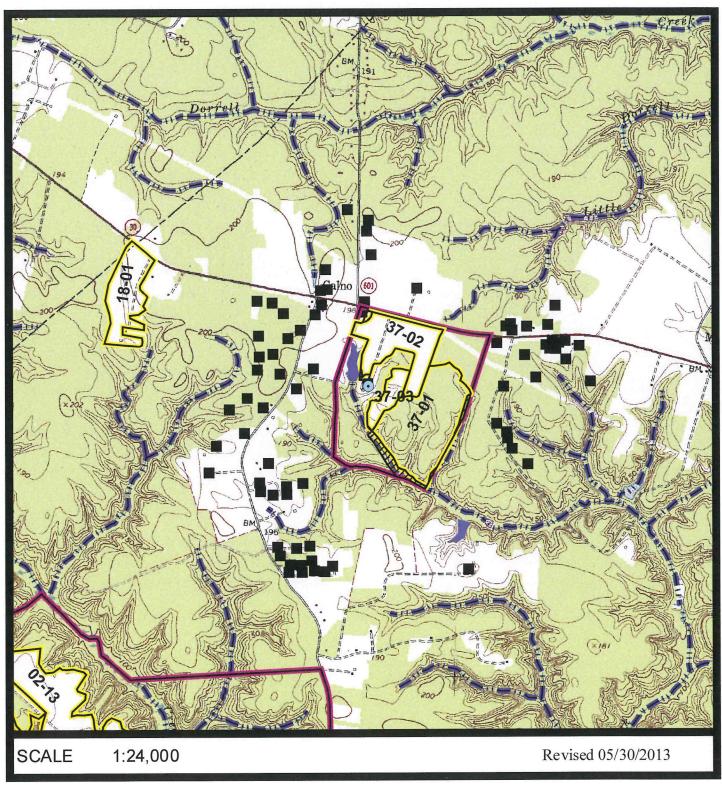
Elsie Farmer KW37 Fields 1 – 3



TOPO MAP



Elsie Farmer KW37 Fields 1 – 3



TOPO MAP

SYNAGRO

Elsie Farmer KW37 Field 1 - 3

